

*high efficiency ~ simple package ~ proven reliability*

# Recoflo®

Eco-Tec's proprietary technology, Recoflo®, is the next generation of ion exchange that breaks the paradigm of traditional ion exchange. With the philosophy of simple package and proven reliability, Recoflo® is the platform for success in Eco-Tec's core product lines.

## What is Recoflo®?

Recoflo® is the technology that recovers, purifies, and recycles water and chemicals for use in industrial operations. With proven results of higher recovery rates, higher quality output, and higher efficiency and economics, Recoflo® technology is quickly becoming the industry leading choice for companies world wide.

## How Does Recoflo® Work?

Recoflo® has proven consistent performance with each of its key features:

### Short bed height and small resin volume

Recoflo® resin beds are only 6 inches (15 cm) in depth, requiring only up to 15% of the resin volume required of conventional ion exchange systems.

### Low resin exchange loading

Recoflo® uses less than 15% of the total exchange capacity of the resin compared to conventional ion exchange processes that use resin to near exhaustion.

### Fine mesh resin

Recoflo® uses Eco-Tec specified resin with a resin bead particle diameter of one-quarter the size of resin used by conventional ion exchange systems.

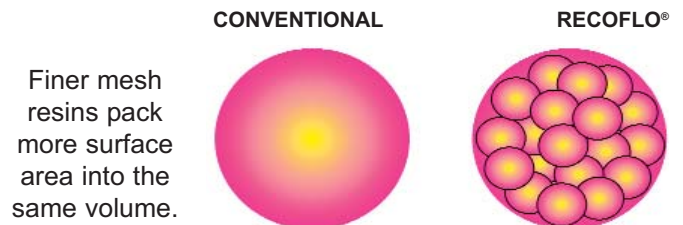
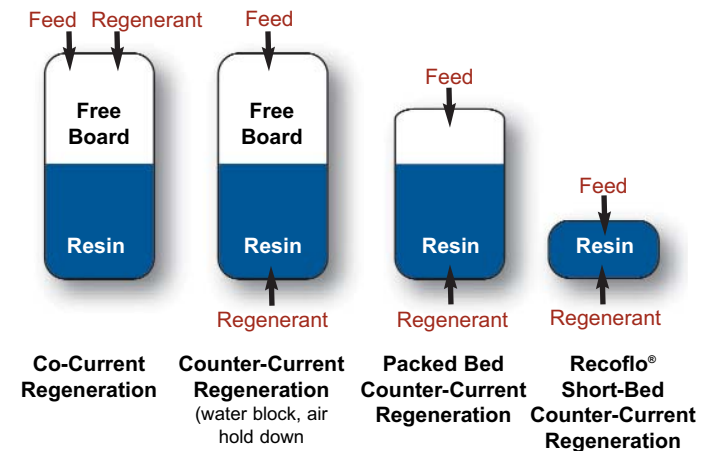
### Compressed resin beds

Recoflo® resin beds are at a state of compression at all times, with no freeboard.

### Counter-current regeneration

Recoflo® uses counter-current regeneration to ensure that the cleanest, and most effective, resin is at the bottom of the bed after regeneration.

## Evolution of Ion Exchange



Packed resin bed promotes uniform flow distribution and plug flow conditions.

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| Features                     | Benefits   |
|------------------------------|--|
| Short-bed height             | 50% less floor space required and up to 70% less headroom<br>Better resin kinetics<br>Easy maintenance                     |
| Small resin volume           | Better resin kinetics<br>Reduced replacement resin costs<br>Less time required for resin replacement                       |
| Compressed resin bed         | Maximizes regeneration efficiency, ensures flow distribution,<br>reduces rinse requirements and provides longer resin life |
| Low resin exchange loading   | Better resin kinetics<br>Resin efficiency<br>Longer resin life   |
| Fine mesh resin              | Better resin kinetics<br>Reduced cycle times<br>Stronger resin   |
| Specifically designed piping | Eliminates “dead spots” and helps to prevent bacteria growth   |
| Counter-current regeneration | Efficient resin<br>Effective resin rinsing   |
| Pre-assembled, skid mounted  | Easy installation  |
| Full factory pre-testing     | Fast installation  |
| Fully automated              | Remote monitoring<br>Reduced operator attention  |

## Why Recoflo®?

### Operational Impact!

Proven high product quality with:

- Operating cost savings
- Maintenance savings
- Time-savings
- Installation savings
- Space savings
- Chemical consumption savings



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